AnAl gItAl synth

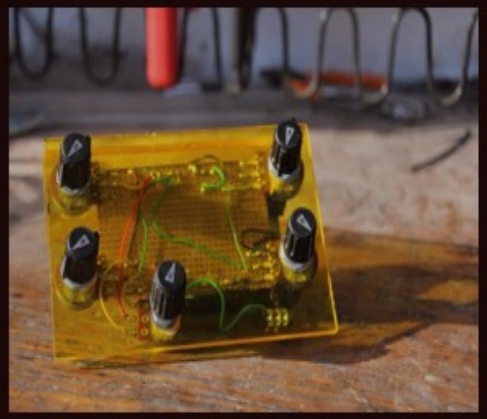
Experimental circuits to learn how the synthetizers work.

analogic synth based on the nand gate logic chip 4093

take the pdf workshop here
the circuit is
Nand gate logic synth

pdf

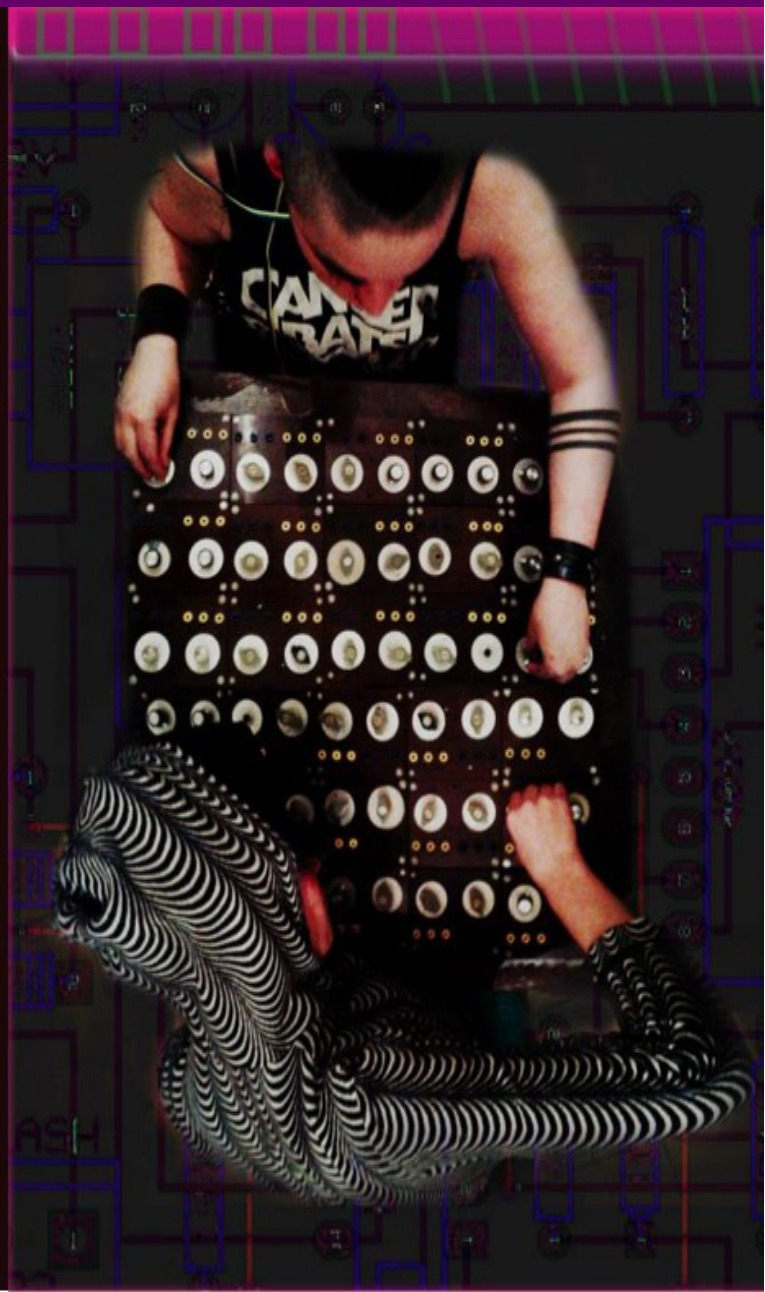
pechsynth based on Auduino project



we take the instructions from here, now we are programing another one, to have more than pentatonic scale

take the pdf workshop here

pdf

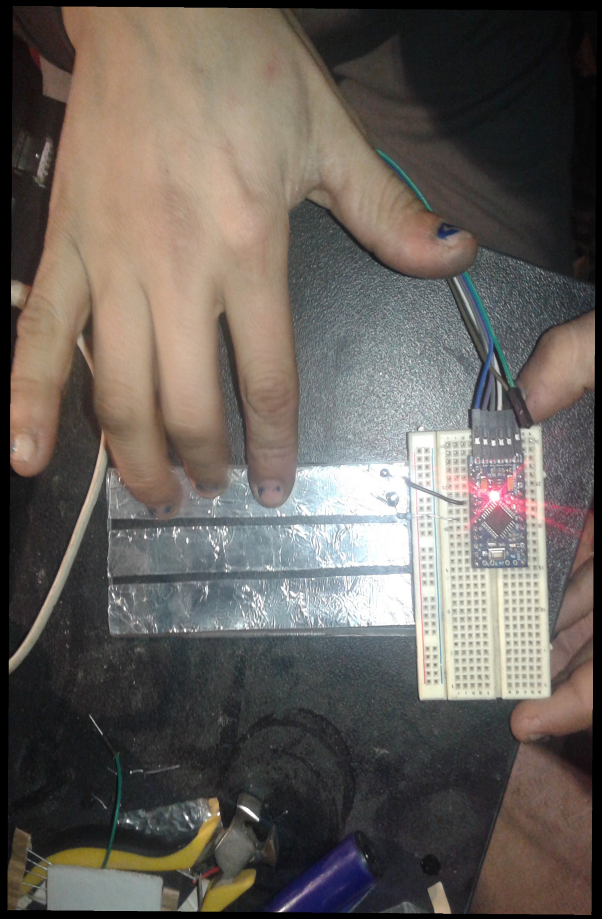


AnAl gItAl synth

AnalGital Synths Workshop
“Building an Analog-Digital Synthesizer ”

Analogic synthesizers are fun. But imagine if you could program each synth and made them sound and act as you feel like!
And, after adding the digital part, imagine if you could control that sound box with your body movements and pressure by adding some capacitive sensors acting similar to a theremin but with a more modulated sounds.

Analgital synths has a more complex waves of sound and a lot of possibilities to add filters with some modifications of the code. Envelopes, delays and other pots and sensors can be applied to the code and machine.
With Analog-digital synthesizers we can mostly do what we want to. Adding some LDR (so sound is controlled by light), some Pressure Sensors or Ribbon sensors



Prototyping the capacitive sensors

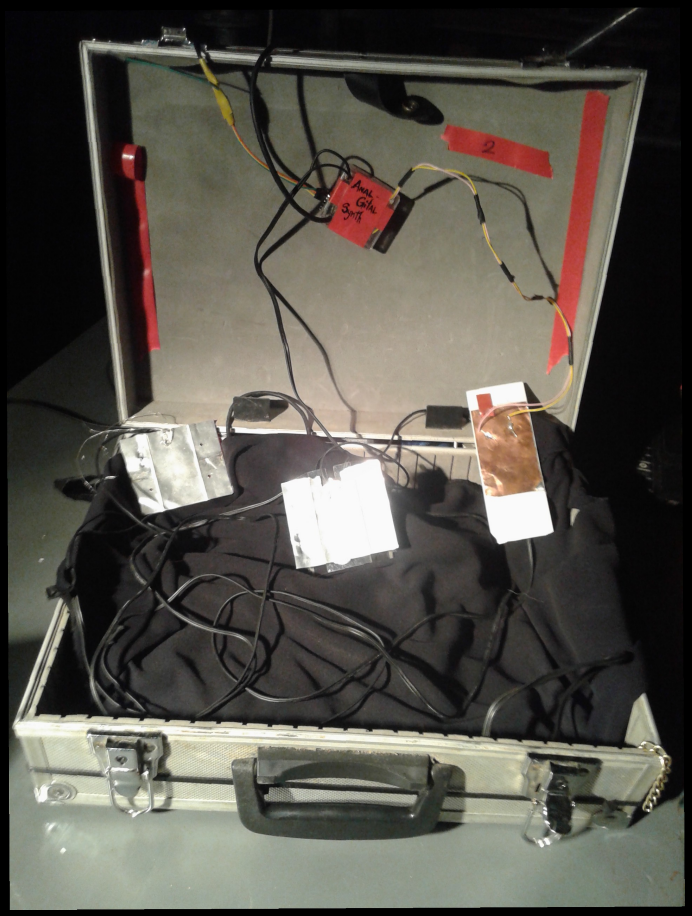
AnAl gItAl synth

For beginners we propose understanding electronic basis and basic electronic components. As well as understanding arduino, its main functionalities and its community around. And just building the Arduino Pro Mini AnalGital Synth and programming it.

For intermediate levels, we propose going a little bit further and build the same Synth but using some DIY Capacitive Sensors and LDR(Light Depending Resistor) to modulate sound. Using CapSense Library, participants will have to first deduce on their own the changes and implementations that the code needs to be running.

And going further, for people that loves experimenting (just like us ;)) we have some nice proposals to begin with and to break your head off!

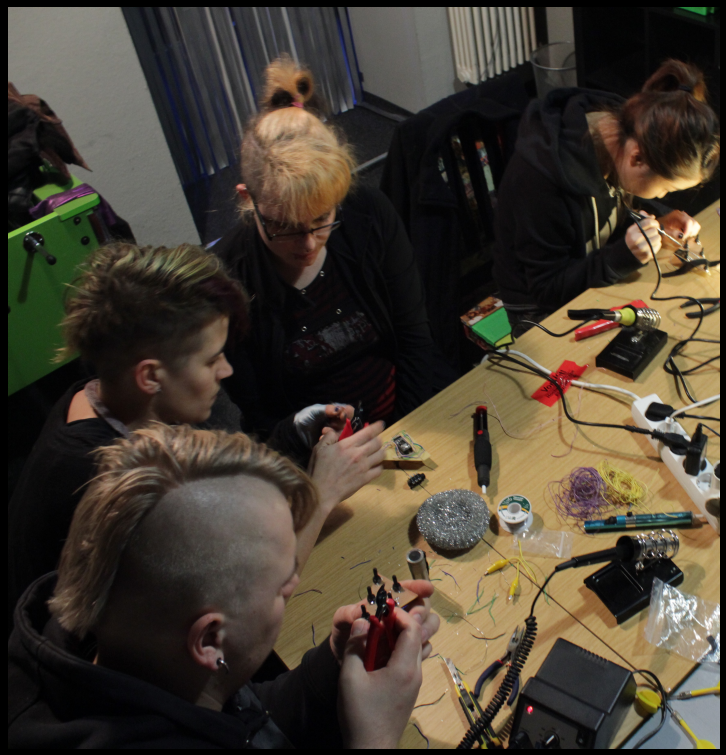
Needs for the workshop: if possible bring your electronic hardware tools, if you have an arduino already you can bring it as well. important bring soldering iron!



Final AnalGital at Transmediale 20 14
Wereable capacitance sensors to use the body to modulate the sound

AnAl gItAl synth

<<PECHBLENDA>> AnalGital Synthesizers
Pechblenda is a TranshackFeminist Bio-electro-chemicalLaboratory
<<www.pechblenda.hotglue.me and www.network23.org/pechblendalab>>
<<www.calafou.org>>.
We work with free hardware and free software and mess around with electronic circuits, circuit bending, repairing devices, noise concerts, experimentation and development, giving workshops and doing tutorials DIY since 2 years ago. We are involved in many different projects and right now we are experimenting with DIY analog-digital synthesizers, between others. http://pechblenda.hotglue.me/?transhackfeminismo. We also work with gender issues, and we understand our bodies as another code to be hacked.
The nucleus of Pechblenda is made of 3 heads, 6 hands, 6 ears and 3 tongues. Pin, Julito & Klau. Each of us have different trajectories but always surrounded by the same ideals.



Workshop AnlGital at Where is Jesus
Berlin Febrero 2014

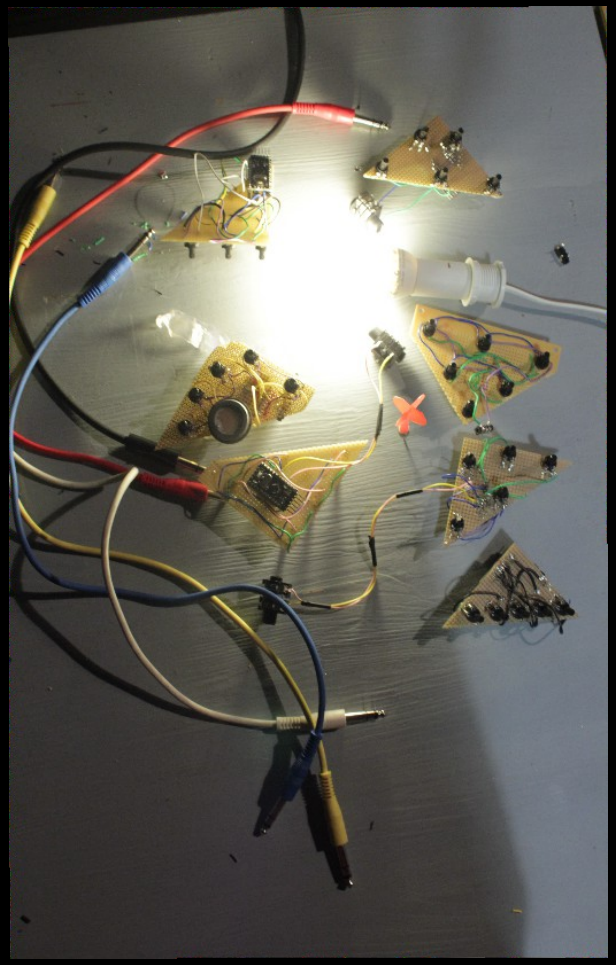
AnAl gItAl synth

Bitchblenda edition

AnAl gItAl synth

Yann keller version with LDR

AnAl gItAl synth



Results from AnlGital workshop
Berlin Febrero 2014

AnAl gItAl synth

Link to download the complete Pdf at,

http://pechblenda.hotglue.me/circuitos/
http://jellypin.hotglue.me/workshop/

http://anarchagland.hotglue.me/
http://thedeathmarch.wordpress.com/

http://transnoise.tumblr.com/
http://alom.hotglue.me
http://quimerarosa.tumblr.com
http://akelarrecyborg.tumblr.com///